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TITLE: A MAMMALIAN MUCINASE, ITS RECOMBINANT
PRODUCTION, AND ITS USE IN THERAPY OR
PROPHYLAXIS AGAINST DISEASES IN WHICH MUCUS IS
INVOLVED OR INFECTION DISEASES

Inventor: Aerts et al.
Serial No. 10/004,219

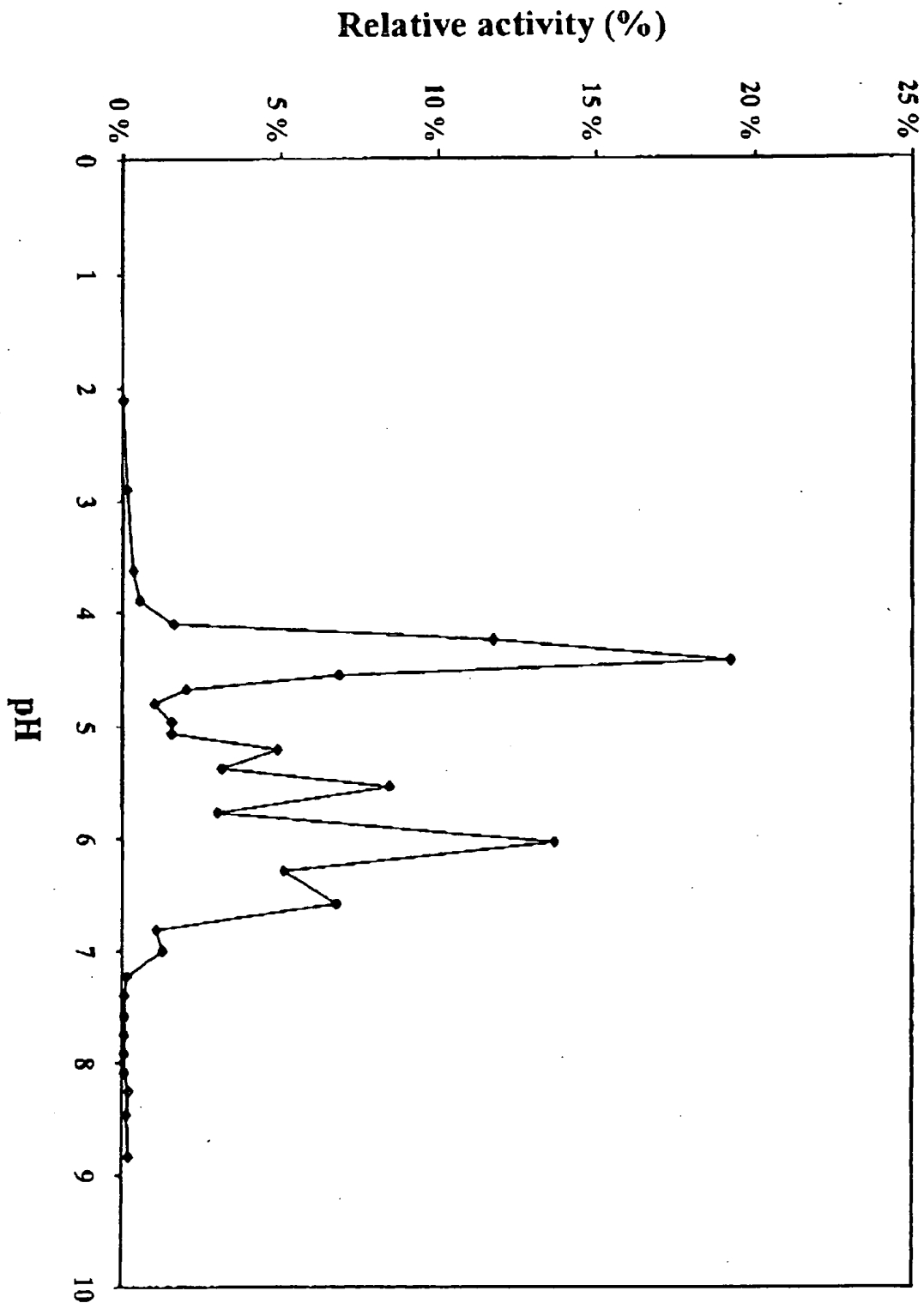


Figure 1

TITLE: A MAMMALIAN MUCINASE, ITS RECOMBINANT
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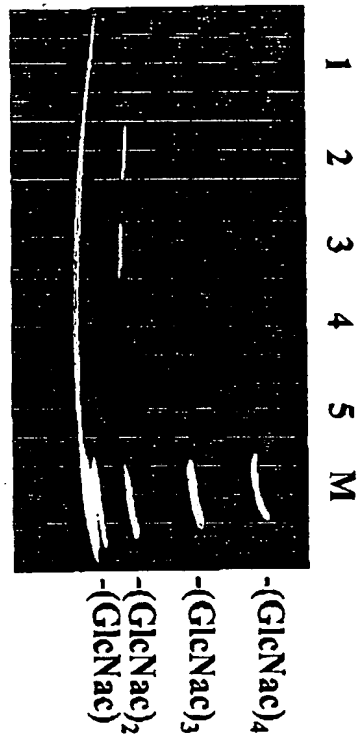


Figure 2

TITLE: A MAMMALIAN MUCINASE, ITS RECOMBINANT
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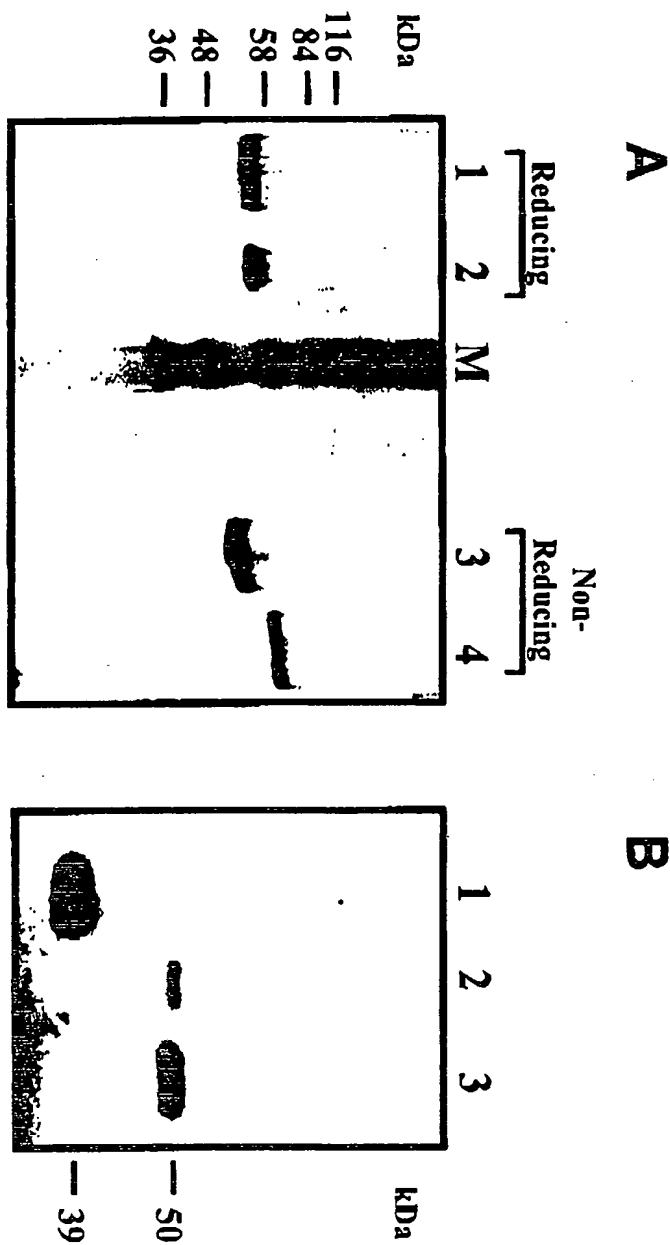
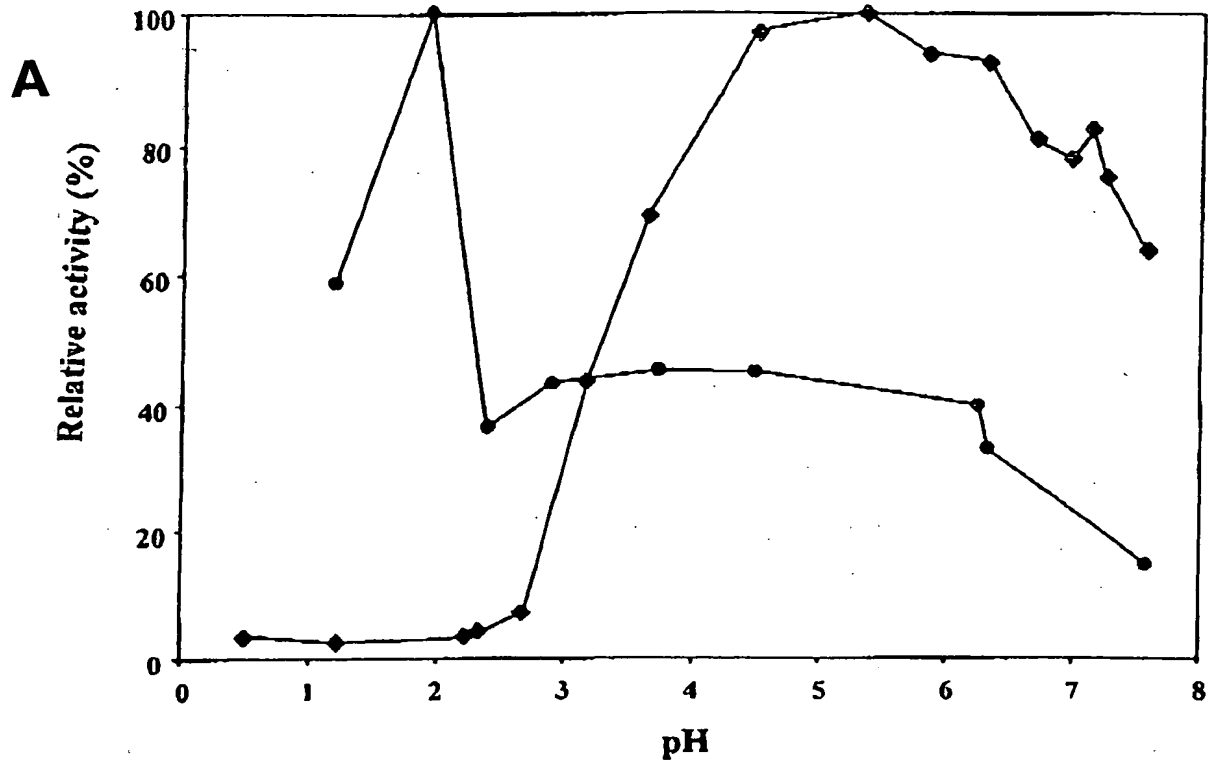


Figure 3

Figure 4

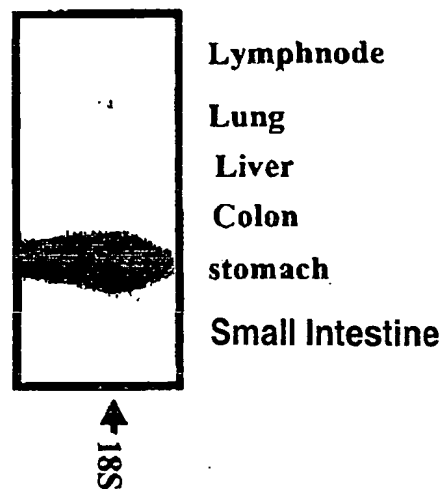
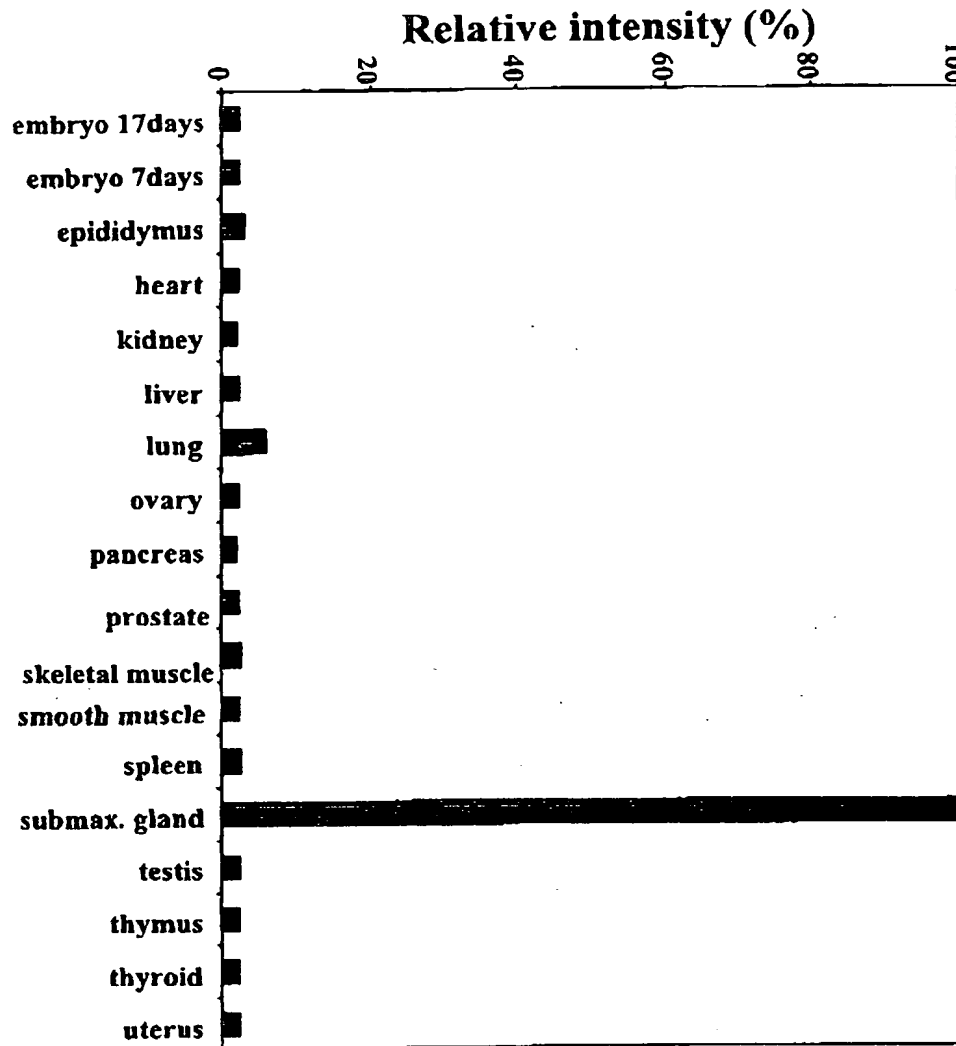


B

	pH2	pH7
h-chitotriosidase	0%	100%
m-AMCase	108%	98%

C

TCA(%)	0.5	1.25	2.5	5.0
h-chitotriosidase	58%	74%	97%	100%
m-AMCase	0%	8%	74%	100%



A

B

Figure 5

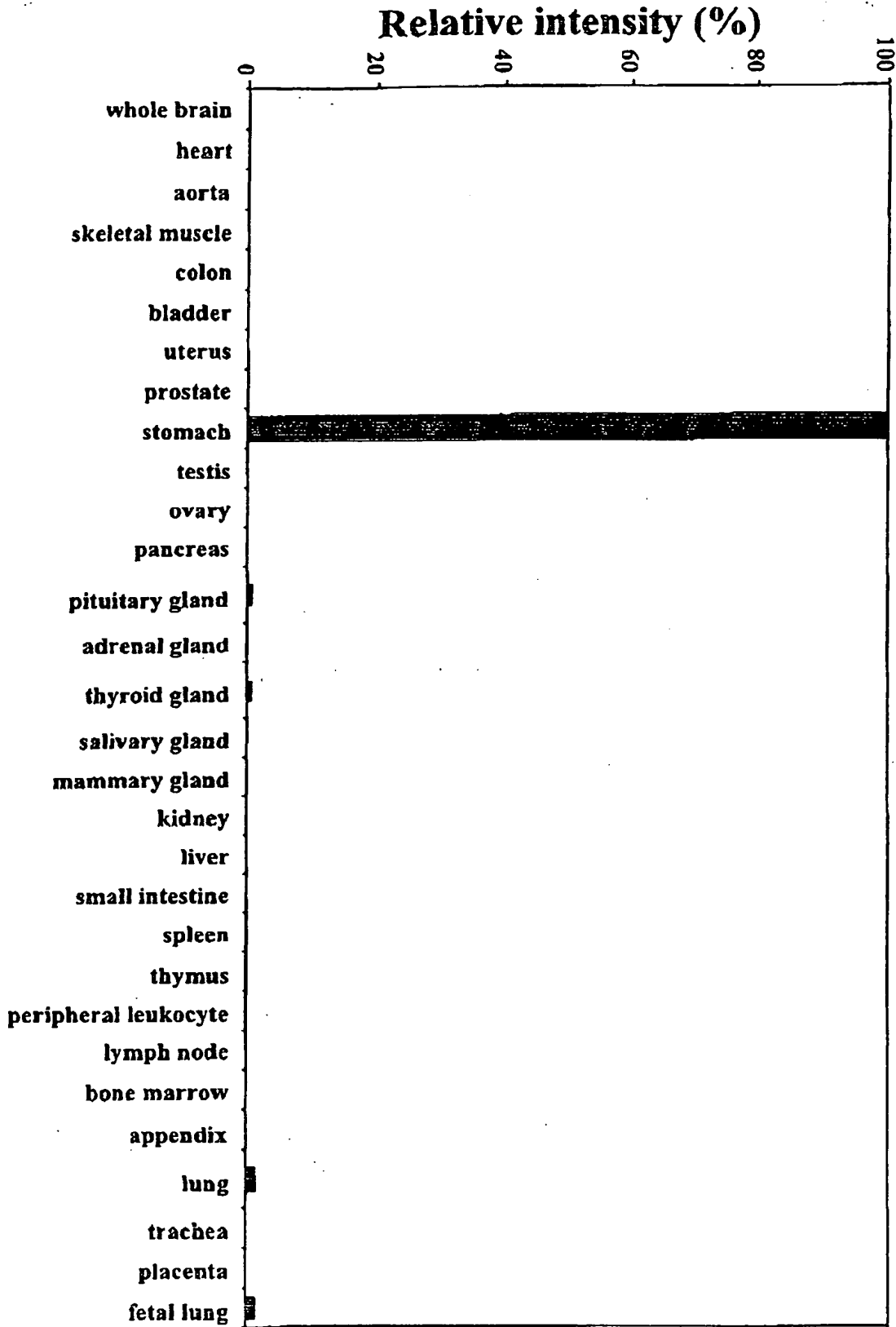


Figure 6

Figure 7

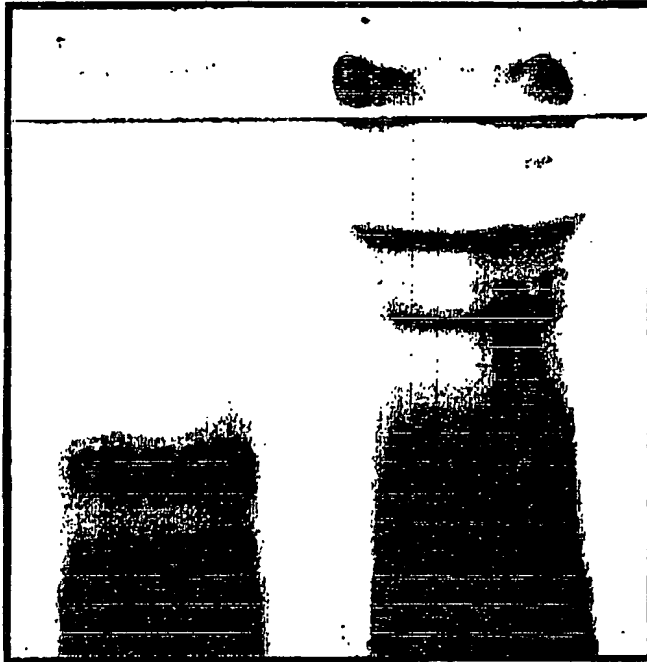


Figure 8. From top to bottom: amino acid sequence (m) AMCase (SEQ ID NO:9), (h) AMCase (SEQ ID NO:14) and (h) chitotriosidase (SEQ ID NO:10). Residues conserved among at least two out of the three sequences are in bold.

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1 YNLICYFTNWAQYRPGLGSFKPDDINPCLCTHLIYAFAGMQNN 43
1 YQLTCYFTNWAQYRPGLGRFMPDNIDPCLCTHLIYAFAGRQNN 43
1 AKLVCYFTNWAQYRQGEARFLPKDLDPCLCTHLIYAFAGMTNH 43

44 EITTIEWNDVTLYKAFNDLKNRNSKLTLLAIGGWNFGTAPF 85
44 EITTIEWNDVTLYQAFNGLKNKNSQLKTLLAIGGWNFGTAPF 85
44 QLSTTEWNETLYQEFNGLKKMNPCLKTLLAIGGWNFGTQKF 85

86 TTMVSTSQNRQTFITSVIKFLRQYGF DGLDL DWEYPGSRGSP 128
86 TAMVSTPENRQTFITSVIKFLRQYEF DGLDF DWEYPGSRGSP 128
86 TDMVATANNRQTFVNSAIRFLRKYSF DGLDL DWEYPGSQGSPA 128

129 QDKHLFTVLVKEMREAFEQE AIESNRPRLMVTA AVAGGISNIQ 171
129 QDKHLFTVLVQEMREAFEQE AKQINKPRLMVTA AVAAGISNIQ 171
129 VDKERFTTLVQDLANAFQQAQTSGKERLLLSAAVPAGQTYVD 171

172 AGYEIPELSKYLD F I H V M T Y D L H G S W E G Y T G E N S P L Y K Y P T E 213
172 SGYEIPQLSQYLDYIHVMTYDLHGSWEGYTGENSPLYKYPTD 213
172 AGYEVDKIAQNLD F V N L M A Y D F H G S W E K V T G H N S P L Y K R Q E E 213

214 TGSNAYLNVDYVMNYWKNNGAPAEKLIVGFPEYGH T F I L R N P S 256
214 TGSNAYLNVDYVMNYWKDNGAPAEKLIVGFPTYGHNFILSNPS 256
214 SGAAASLNVDAAVQQWLQKGT P A S K L I L G M P T Y G R S F T L A S S S 256

257 DNGIGAPTSGDGPAGAYTRQAGFWAYYEICTFLRSGATEVWDA 299
257 NTGIGAPTSGAGPAGPYAKESGIWAYYEICTFLKNGATQGWDA 299
257 DTRVGAPATGSGTGPFTKEGGMLAYYEVCSW - -KGATKQRIQ 297

300 SQEVPYAYKAN E W L G Y D N I K S F S V K A Q W L K Q N N F G G A M I W A I D 342
300 PQEVPYAYQGNVWVG Y D N I K S F D I K A Q W L K H N K F G G A M V W A I D 342
300 QVPYIFRDNQWVGFD D V E S F K T K V S Y L K Q K G L G G A M V W A L D 340

343 LDDFTGSFCDQGKFPLTSTLNKALGISTEGCTAPDVPSEPVTT - 385
343 LDDFTGTFCNQGKFPLISTLK K A L G L Q S A S C T A P A Q P I E P I T A A 386
341 LDDFAGFSCNQGRYPLIQTLRQELSLPYLPSGTPEL-EVPKPGQ 383

386 - -PPGSGSGGGSSGGSSGGSGGFCADKADGLYPVADDRNAFWQC 426
387 PSGSGNGSGSSSSGGSSGGSGGFC AVRANGLYPVANNRNAFWHC 429
384 PS - - - - -EPEHG P S P G Q D T F C Q G K A D G L Y P N P R E R S S F Y S C 419

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VNGVTYQQNCQAGLVFD T S C D C C N W A 455
AAGRLFQQSCPTGLVFSNSCKCCTWN 445
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